AMENDMENTS TO THE CLAIMS:

Listing of claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1.   (Currently Amended): An Internet printing method for a client to control the printing of a print server via the Internet using the Internet Printing Protocol, comprising:

a step of opening a server site of ~~said~~ the print server in a proxy unit on ~~said~~ the Internet according to a request from ~~one of said~~ the client ~~and said~~ and/or the print server;

a step of accessing ~~said~~ the server site using ~~said~~ the Internet Printing Protocol with ~~said~~ the client; and

a step of converting ~~the~~ a printing service request of ~~said~~ the client using ~~said~~ the Internet Printing Protocol into a protocol which allows circumventing the firewall of ~~said~~ the print server, and transferring ~~said~~ the converted printing service request to ~~said~~ the print server according to ~~said~~ the access.

2.   (Currently Amended): The Internet printing method according to Claim 1, further comprising:

a step of returning ~~the~~ an execution result of ~~said~~ the printer server for ~~said~~ the printing service request to ~~said~~ the proxy unit, and returning the execution result to ~~said~~ the client from ~~said~~ the proxy unit using ~~said~~ the Internet Printing Protocol.

3.   (Currently Amended): The Internet printing method according to Claim 1, further

comprising:

a step of connecting ~~said~~ the proxy unit and ~~said~~ the print server according to the

connection request from ~~said~~ the print server.

4.   (Currently Amended): The Internet printing method according to Claim 3, wherein ~~said~~

the proxy unit plays the role of a server and ~~said~~ the print server plays ~~the~~ a role of a client when

~~said~~ the proxy unit and ~~said~~ the print server are connected, and ~~said~~ the proxy unit plays ~~the~~ a role

of a client and ~~said~~ the print server plays the role of a server when ~~said~~ the printing service is

requested after ~~said~~ the connection.

5.   (Currently Amended): The Internet printing method according to Claim 1, further

comprising:

a step of transmitting a printing command from ~~said~~ the client to ~~said~~ the print server

using a protocol which can circumvent ~~said~~ the firewall; and

a step of connecting ~~said~~ the proxy unit and ~~said~~ the print server according to the

connection request from ~~said~~ the print server corresponding to ~~said~~ the printing command.

6.   (Currently Amended): The Internet printing method according to Claim 1, further

comprising:

a step of transmitting a printing command from ~~said~~ the client to ~~said~~ the proxy unit using

~~said~~ the Internet Printing Protocol;

~~a step of~~ transferring ~~said~~ the printing command from ~~said~~ the proxy unit to ~~said~~ the print

server using a protocol which can circumvent ~~said~~ the firewall; and

~~a step of~~ connecting ~~said~~ the proxy unit and ~~said~~ the print server according to the

connection request from ~~said~~ the print server corresponding to ~~said~~ the transferred printing

command.

7.   (Currently Amended): The Internet printing method according to Claim 1, further

comprising:

~~a step of~~ constantly connecting ~~said~~ the proxy unit and ~~said~~ the print server according to

the connection request from ~~said~~ the print server.

8.   (Currently Amended): An Internet printing system for a client to control the printing for a

print server via the Internet using the Internet Printing Protocol, comprising:

~~said~~ the client ~~for communicating~~ that communicates at least by using the Internet

Printing Protocol;

said the print server which that is protected by a firewall on said the Internet and for executing a printing request; and

a proxy unit for opening that opens a server site of said the print server according to a request from one of said the client and said and/or the print server, converts the printing service request of said the client using said the Internet Printing Protocol into a protocol which allows circumventing the firewall of said the print server at the access of said the client to said the server site by said the Internet Printing Protocol, and transfers the request to said the print server.

9. (Currently Amended): The Internet printing system according to Claim 8, wherein said the print server returns the execution result for said the printing service request to said the proxy unit and said the proxy unit returns said the execution result to said the client using said the Internet Printing Protocol.

10. (Currently Amended): The Internet printing system according to Claim 8, wherein said the proxy unit is connected to said the print server according to the connection request from said the print server.

11. (Currently Amended): The Internet printing system according to Claim 10, wherein said the proxy unit plays the a role of a server and said the print server plays the a role of a client when said the proxy unit and said the print server are connected, and said the proxy unit plays the

a role of a client and ~~said~~ the print server plays ~~the~~ a role of a server when ~~said~~ the printing

service is requested after ~~said~~ the connection.

12.   (Currently Amended): The Internet printing system according to Claim 8, wherein ~~said~~

the client transmits a printing command to ~~said~~ the print server using a protocol which can

circumvent ~~said~~ the firewall, and ~~said~~ the proxy unit connects with ~~said~~ the print server according

to the connection request from ~~said~~ the print server corresponding to ~~said~~ the printing command.

13.   (Currently Amended): The Internet printing system according to Claim 8, wherein ~~said~~

the client transmits a printing command to ~~said~~ the proxy unit using ~~said~~ the Internet Printing

Protocol, and ~~said~~ the proxy unit transfers ~~said~~ the printing command to ~~said~~ the print server

using a protocol which can circumvent ~~said~~ the firewall, and connects with ~~said~~ the print server

according to the connection request from ~~said~~ the print server corresponding to ~~said~~ the

transferred printing command.

14.   (Currently Amended): The Internet printing system according to Claim 8, wherein ~~said~~

the proxy unit is constantly connected with ~~said~~ the print server according to the connection

request from ~~said~~ the print server.

15.   (Currently Amended): A proxy unit for a client to control the printing for a print server

via the Internet using the Internet Printing Protocol, comprising:

a server site of ~~said~~ the print server to be opened according to ~~the~~ a request from ~~one of~~

~~said~~ the client ~~and said~~ and/or the print server; and

an exchanger for converting a printing service request of ~~said~~ the client by the Internet

Printing Protocol to a protocol which allows circumventing the firewall of ~~said~~ print server at the

access of ~~said~~ client to ~~said~~ server site by ~~said~~ Internet Printing Protocol, and for transferring the

request to ~~said~~ print server.

16.   (Currently Amended): The proxy unit according to Claim 15, wherein ~~said~~ exchanger

receives ~~the~~ ~~an~~ execution result of ~~said~~ print server for ~~said~~ printing service request and returns to

~~said~~ the client by ~~said~~ the Internet Printing Protocol.

17.   (Currently Amended): The proxy unit according to Claim 15, wherein ~~said~~ the proxy unit

connects with ~~said~~ the print server according to the connection request from ~~said~~ the print server.

18.   (Currently Amended): The proxy unit according to Claim 17, wherein ~~said~~ the proxy unit

plays ~~the~~ a role of a server and ~~said~~ the print server plays ~~the~~ a role of a client when ~~said~~ the

proxy unit and ~~said~~ the print server are connected, and ~~said~~ the proxy unit plays ~~the~~ a role of a

client and ~~said~~ the print server plays ~~the~~ a role of a server when ~~said~~ the printing service is requested after ~~said~~ the connection.

19.   (Currently Amended): A printer server for a client to control printing via the Internet using the Internet Printing Protocol, comprising:

    a network interface unit for communicating; and

    a processing unit ~~for requesting~~ that requests to a proxy unit installed on ~~said~~ the Internet to open a server site of ~~said~~ the print server, receiving a printing service request from ~~said~~ the proxy unit where a printing service request of ~~said~~ the client by Internet Printing Protocol is converted into a protocol which allows circumventing the firewall of ~~said~~ the print server at the access of ~~said~~ the client to ~~said~~ the server site by ~~said~~ the Internet Printing Protocol, and ~~executing said~~ executes the printing service request.

20.   (Currently Amended): The print server according to Claim 19, wherein ~~said~~ the proxy unit plays ~~the~~ a role of a server and ~~said~~ the print server plays ~~the~~ a role of a client when ~~said~~ the proxy unit and ~~said~~ the print server are connected, and ~~said~~ the proxy unit plays the role of a client and ~~said~~ the print server plays ~~the~~ a role of a server when ~~said~~ the printing service is requested after ~~said~~ the connection.